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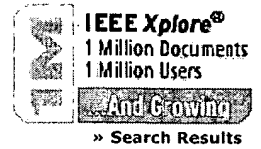
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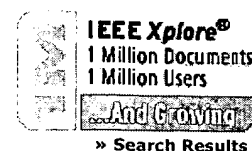
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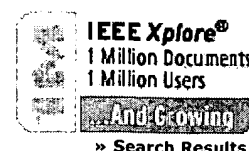
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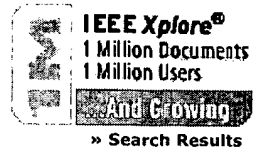
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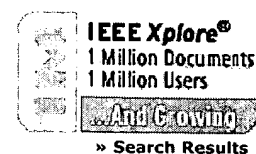
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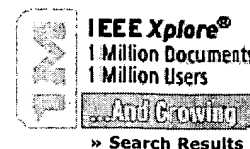
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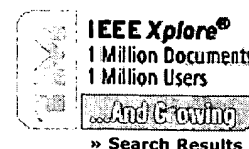
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Computer Graphics International, 1998. Proceedings , 22-26 June 1998

Pages:433 - 441

[\[Abstract\]](#) [\[PDF Full-Text \(1384 KB\)\]](#) IEEE CNF
2 A computer graphics program for navigation by stereovision*Sung, E.; Tan, D.; Phuan, T.L.; Kee, C.W.; Choon, K.K.;*

Industrial Electronics Society, 1990. IECON '90., 16th Annual Conference of IEEE , 27-30 Nov. 1990

Pages:488 - 493 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(548 KB\)\]](#) IEEE CNF
3 Multiple pixel intensity region growing algorithm for surface reconstruction using ECG gated MRI*Agris, J.M.; deFigueiredo, R.;*

Engineering in Medicine and Biology Society, 1989. Images of the Twenty-First Century. Proceedings of the Annual International Conference of the IEEE Engineering in , 9-12 Nov. 1989

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Microwaves, Antennas and Propagation, IEE Proceedings - , Volume: 147 , Issue: 3 , June 2000

Pages:247 - 248

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2 Robust meshes from multiple range maps

Pulli, K.; Duchamp, T.; Hoppe, H.; McDonald, J.; Shapiro, L.; Stuetzle, W.;

3-D Digital Imaging and Modeling, 1997. Proceedings., International Conference on Recent Advances in , 12-15 May 1997

Pages:205 - 211

[\[Abstract\]](#) [\[PDF Full-Text \(608 KB\)\]](#) **IEEE CNF**
3 Dynamic smooth subdivision surfaces for data visualization

Mandal, C.; Hong Qin; Vemuri, B.C.;

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Pages:371 - 377, 562

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4 Towards a general multi-view registration technique

Bergevin, R.; Soucy, M.; Gagnon, H.; Laurendeau, D.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 18 , Issue: 5 , May 1996

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5 Vapor phase treatment of CdTe/CdS thin films with CdCl₂:O₂

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Photovoltaic Specialists Conference, 1996., Conference Record of the Twenty Fifth IEEE , 13-17 May 1996

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6 Multi-resolution surface modeling from multiple range views

Soucy, M.; Laurendeau, D.;

Computer Vision and Pattern Recognition, 1992. Proceedings CVPR '92., 1992 IEEE Computer Society

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7 An information theoretic robust sequential procedure for surface model order selection in noisy range data

Mirza, M.J.; Boyer, K.L.;

Computer Vision and Pattern Recognition, 1992. Proceedings CVPR '92., 1992 IEEE Computer Society Conference on , 15-18 June 1992

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[\[Abstract\]](#) [\[PDF Full-Text \(444 KB\)\]](#) IEEE CNF

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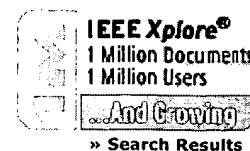
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Pages:293 - 302
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2 An improved /spl alpha/-Shapes algorithm for geometric reconstruction*Bin Shyan Jong; Tsong Wu Lin; Wen Hao Yang; Kun Shyan Jong;*Distributed Computing Systems Workshops, 2002. Proceedings. 22nd International Conference on , 2-5 July 2002
Pages:228 - 232
[\[Abstract\]](#) [\[PDF Full-Text \(335 KB\)\]](#) IEEE CNF
3 Modeling shape and topology of 3D images of biological specimens*De-Alarcon, P.A.; Pascual-Montano, A.P.; Gupta, A.; Carazo, J.M.;*Pattern Recognition, 2002. Proceedings. 16th International Conference on , Volume: 1 , 11-15 Aug. 2002
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 to which their normal vector points. Given a **seed triangle** (taken from the queue) a tetrahedron is the tetrahedralization process with the given **seed triangles** each created tetrahedron will more likely
fea1.ansys.com/pub/sowen/imr6/fleischmann97.ps.gz

[An FPGA Implementation of Triangle Mesh Decompression - Mitra, Chiueh \(2002\) \(Correct\) \(1 citation\)](#)
 Machines, April 2002. An FPGA Implementation of **Triangle** Mesh Decompression Tulika Mitra, Tzi-cher Chiueh
www.ecsl.cs.sunysb.edu/tr/TR101.pdf.gz

[Compression-Domain Editing of 3D Models - Tulika Mitra Tzi-Cker \(Correct\)](#)
 a triangle mesh in a breadth-first order from a **seed triangle**. The vertices of the **seed triangle** form a order from a **seed triangle**. The vertices of the **seed triangle** form a frontier. A frontier is a circular
www.ecsl.cs.sunysb.edu/tr/TR129.pdf

[Warped Textures for UV Mapping Encoding - Sorkine, Cohen-Or \(2001\) \(Correct\)](#)
 The process is as follows: an initial **seed triangle** is mapped to the plane as is. Then, we order and growing a patch P around the **seed triangle**. At each step, we find the set T of k
www.cs.tau.ac.il/~dcor/online_papers/papers/WarpedTextures.pdf

[Bounded-distortion Piecewise Mesh Parameterization - Sorkine, Cohen-Or.. \(Correct\)](#)
 with bounded local distortion. Starting from a **seed triangle** each patch is "grown" incrementally, from the the mesh surface by growing patches around **seed triangles**, until some termination criterion is reached.
www.cs.tau.ac.il/~dcor/online_papers/papers/sorkine02.pdf

[Compression-Domain Parallel Rendering - Mitra, Chiueh \(Correct\)](#)
www.ecsl.cs.sunysb.edu/tr/TR104.pdf.gz

[Mesh Compression and Its Hardware/Software Applications - Mitra \(2000\) \(Correct\)](#)
 . 37 4.4.4 Choice of **Seed Triangle** .
 .37 5 The impact of dierent choices for the **seed triangle** on compression eciency.
www.ecsl.cs.sunysb.edu/tr/TR90.ps.Z

[Compressing Triangulated Irregular Networks - De Floriani, Magillo, Puppo \(1999\) \(Correct\)](#)
 in a shelling order (i.e.radially around a **seed triangle**)it encodes each vertex exactly once, and
www.disi.unige.it/person/PuppoE/PS/geoinfo-00.ps.gz

[Compressing TINs - De Floriani, Magillo, Puppo \(1998\) \(Correct\)](#)
 in a shelling order (i.e.radially around a **seed triangle**)both the compression and the decompression
www.disi.unige.it/ftp/person/MagilloP/PS/acmgis-98.ps

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www.research.ibm.com/vistechology/pdf/bpa_tvcp.pdf

[Delaunay Based Shape Reconstruction from Large Data - Dey, Giesen, Hudson \(2001\) \(Correct\) \(1 citation\)](#)
and often create artifacts in the surface. The **ball pivoting** algorithm of [8] was used in the Pieta
H. Rushmeier, C. Silva and G. Taubin. The **ballpivoting** algorithm for surface reconstruction. IEEE
www.cis.ohio-state.edu/~tamaldey/paper/large/large.pdf

[Smooth-Surface Reconstruction in Near Linear Time - Funke, Ramos \(2001\) \(Correct\) \(1 citation\)](#)
time is observed experimentally for the "**ball-pivoting**" algorithms of Bernardini et al. 5] and of
H. Rushmeier, C. Silva and G. Taubin. The **ball-pivoting** algorithm for surface reconstruction. In IEEE
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[Reconstructing Surfaces Using Anisotropic Basis Functions - Huong Quynh Dinh \(2001\) \(Correct\) \(1 citation\)](#)
Shapes [10]the Crust algorithm [1]and the **Ball-Pivoting** algorithm [3]take exactly this approach.
J. Mittleman, H. Rushmeier, and C. Silva. The **BallPivoting** Algorithm for Surface Reconstruction. IEEE
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[Undersampling and Oversampling in Sample Based Shape.. - Dey, Giesen, Goswami, .. \(Correct\)](#)
the surface. Bernardini et al. 10] proposed a **ball pivoting** algorithm that reconstructs the surface
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[COURSE NOTES 8 CASE STUDY: Scanning Michelangelo's Florentine .. - Sunday August Two \(1999\) \(Correct\)](#)
the User Additional Materials Section 7 -The **Ball Pivoting** Algorithm for Surface Reconstruction Section
timing for meshing too long. 5-4 The **Ball-Pivoting** Algorithm Fast surface reconstruction from
See section 4.3 for further details. The **pivoting ball** is in contact with the three vertices of
mesh.caltech.edu/ee148/refs/sg1999courses/08/08.pdf

[A Zero-Length Bellows For The Pep-li High-Energy Ring - Nordby Daly Kurita \(Correct\)](#)
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component analysis, which is also used in **region growing** and propagation methods such as Lee, Tang
surface reconstruction techniques, including Alpha **Shapes** [10]the Crust algorithm [1]and the
locally. The reconstructed surface is sharper along **edges** and at corner points. We determine the direction
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[Interactive Multiresolution Mesh Editing - Zorin, Schröder, Sweldens \(1997\) \(Correct\) \(67 citations\)](#)
in the entertainment industry. When using **laser range scanners**, for example, individual models are often most hardware rendering ultimately resolves to **triangle** scanconversion even for patches, polygonal 3D with every vertex in the graph (cf. Fig. 6)A **triangle** denotes a face in the graph or the associated graphics.stanford.edu/~dzorin/multires/meshed/sig97.ps.gz

[Surface Reconstruction by Voronoi Filtering - Amenta, Bern \(1998\) \(Correct\) \(18 citations\)](#)
is designed for data samples collected by a **laser range scanner**. This algorithm sums anisotropically The algorithm uses Voronoi vertices to remove **triangles** from the Delaunay triangulation. We prove the of the Voronoi ver tices to remove Delaunay **triangles**. The algorithm picks only two Voronoi net.cs.utexas.edu/users/amenta/pubs/3dcrust.ps.gz

[The Ball-Pivoting Algorithm for Surface Reconstruction - Bernardini, Mittleman.. \(1999\) \(Correct\) \(17 citations\)](#)
F. Bernardini, J. Mittleman, H. Rushmeier, C. Silva, and G. Taubin. The ball-pivoting algorithm for surface www.research.ibm.com/vistechology/pdf/bpa_tvlg.pdf

[Implementation of Dynamic Obstacle Avoidance on the CMU NavLab - Dai Feng Sanjiv \(1990\) \(Correct\) \(9 citations\)](#)
www.ri.cmu.edu/pub_files/pub3/feng_d_1990_1/feng_d_1990_1.pdf

[A Simple Algorithm for Homeomorphic Surface Reconstruction - Amenta, Choi, Dey, Leekha \(2000\) \(Correct\) \(7 citations\)](#)
points. The point set can be generated by a **laser range scanner**, manually with a contact probe digitizer, following structural theorem. Let T be a set of **triangles** satisfying three conditions, namely, I. T three conditions, namely, I. T contains all **triangles** whose dual Voronoi edges intersect S, II. each www.cs.utexas.edu/users/amenta/pubs/simple.ps.gz

[Reconstructing Surfaces and Functions on Surfaces from.. - Bajaj, Bernardini, Xu \(1997\) \(Correct\) \(4 citations\)](#)
part might be scannedwith a device like the **laser range scanner**, or points might be measured on its [42, 17, 18, 48, 34, 47, 20]The reconstructed **triangle** mesh can be used as a starting point for a value of the parameter #contains only edges, **triangles** and tetrahedra that connect points that are www.ticam.utexas.edu/CCV/papers/surfalg.pdf

[Reconstructing Textured CAD Model of Urban Environment Using.. - Zhao, Shibasaki \(2001\) \(Correct\) \(3 citations\)](#)
of Urban Environment Using Vehicle-Borne **Laser Range Scanners** and Line Cameras,in Second Int. Workshop shiba.iis.u-tokyo.ac.jp/pub/publ/././member/current/zhao/homepage/icvs2001.pdf

[A Triangulation-Based Object Reconstruction Method - Bernardini, Bajaj, Chen.. \(1997\) \(Correct\) \(2 citations\)](#)
by recent scanning devices (such as the **laser range scanner**) is dense, in the sense that the the following three phases: 1. Build an initial **triangle** mesh that interpolates all data points, areas of insufficient sam pling. The resulting **triangle** mesh can be used to estimate nor mals at smooth king.ticam.utexas.edu/CCV/papers/four-page.ps.gz

[Multiresolution Model Compression Using 3-D Wavelets - Rein-Lien Hsu And \(Correct\)](#)
eciency. Computerized Tomography **Laser Range Scanner** Mechanical Touch Probes 3-D Scanning approximates these surfaces by a large number of **triangles**, each of which contains 2 Multiresolution of vertex positions and facet properties of 3-D **triangle** data. Taubin [29] proposed the topological ftp.cse.msu.edu/pub/prip/vincent/MSUTechReport/mmc.ps.gz

[Extraction of Feature Lines on Triangulated Surfaces.. - Rössl, Kobbelt, Seidel \(Correct\)](#)
be used to clas sify surfaces sampled by a **laser range scanner**. But not only recognition of resp. the froessl,kobbelt,hpseidelg@mpisb.mpg.de Abstract **Triangle** meshes are a popular representation of surfaces

We are using discrete curvature analysis on **triangle** meshes to obtain curvature values in every
www.mpi-sb.mpg.de/~kobbelt/papers/morpho.ps.gz

Automatic Reconstruction of 3D CAD Models from Digital.. - Bernardini, Bajaj, Chen, .. (Correct)
data acquisition devices, such as the **laser range scanner**, has made it relatively simple to acquire
are based on touch probes, optical or **range laser scanners**, and acoustic or magnetic sensors. Touch
is based on alpha shapes to compute an initial **triangle** mesh approximating the object's surface. A mesh
king.ticam.utexas.edu/CCV/papers/sharp.ps.gz

SPIN Learning and Forgetting Surface Classifications.. - Keuchel, von.. (1993) (Correct)
SPIN Learning **and** Forgetting Surface Classifications with Dynamic
[ftp.uni-kl.de/reports_uni-kl/computer_science/mobile_robots/1993/papers/Zimmer.learning_surfaces.ps.Z](ftp://ftp.uni-kl.de/reports_uni-kl/computer_science/mobile_robots/1993/papers/Zimmer.learning_surfaces.ps.Z)

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- 1** Progressive point set surfaces 84%





 Shachar Fleishman , Daniel Cohen-Or , Marc Alexa , Cláudio T. Silva
ACM Transactions on Graphics (TOG) October 2003
 Volume 22 Issue 4
 Progressive point set surfaces (PPSS) are a multilevel point-based surface representation. They combine the usability of multilevel scalar displacement maps (e.g., compression, filtering, geometric modeling) with the generality of point-based surface representations (i.e., no fixed homology group or continuity class). The multiscale nature of PPSS fosters the idea of *point-based modeling*. The basic building block for the construction of PPSS is a projection operator, which maps points in ...
- 2** Session P3: filtering and sampling: Undersampling and oversampling in sample based shape modeling 82%

 Tamal K. Dey , Joachim Giesen , Samrat Goswami , James Hudson , Rephael Wenger , Wulue Zhao
Proceedings of the conference on Visualization '01 October 2001
 Shape modeling is an integral part of many visualization problems. Recent advances in scanning technology and a number of surface reconstruction algorithms have opened up a new paradigm for modeling shapes from samples. Many of the problems currently faced in this modeling paradigm can be traced back to two anomalies in sampling, namely *undersampling* and *oversampling*. Boundaries, non-smoothness and small features create undersampling problems, whereas oversampling leads to too many ...
- 3** Reverse engineering: Tight cocone: a water-tight surface reconstructor 82%





 Tamal K. Dey , Samrat Goswami
Proceedings of the eighth ACM symposium on Solid modeling and applications June 2003
 Surface reconstruction from unorganized sample points is an important problem in computer graphics, computer aided design, medical imaging and solid modeling. Recently a few algorithms have been developed that have theoretical guarantee of computing a topologically correct and geometrically close surface under certain condition on sampling density. Unfortunately, this sampling condition is not always met in practice due to noise, non-smoothness or simply due to inadequate sampling. This leads to ...
- 4** Reverse engineering: Surface reconstruction of freeform objects based on multiresolution volumetric method 82%

 Sergei Azernikov , Alex Miropolsky , Anath Fischer
Proceedings of the eighth ACM symposium on Solid modeling and applications June 2003
 3D scanners developed over the past several decades have facilitated the reconstruction of complicated engineering parts. Typically the boundary representation of a part is reconstructed from its scanned cloud of points. This approach, however, is still limited and cannot be applied to a family of objects such as thin parts. Recently, new 3D scanning devices have been developed. These devices capture additional information, such as normals and texture, as well as conventional information, includ ...
- 5** Session P4: simplification: A memory insensitive technique for large model simplification 80%

 Peter Lindstrom , Cláudio T. Silva
Proceedings of the conference on Visualization '01 October 2001
 In this paper we propose three simple, but significant improvements to the OoCS (Out-of-Core Simplification) algorithm of Lindstrom [20] which increase the quality of approximations and extend the applicability of the algorithm to an even larger class of compute systems. The original OoCS algorithm has memory complexity that depends on the size of the output mesh, but no dependency on the size of the input mesh. That is, it can be used to simplify meshes of arbitrarily large size, but the complex ...
- 6** Knowledge and representation: Acquisition, representation, query and analysis of spatial data: a demonstration 3D digital library 80%

-  Jeremy Rowe , Anshuman Razdan , Arley Simon
Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003
 The increasing power of techniques to model complex geometry and extract meaning from 3D information create complex data that must be described, stored, and displayed to be useful to researchers. Responding to the limitations of two-dimensional (2D) data representations perceived by discipline scientists, the Partnership for Research in Spatial Modeling (PRISM) project at Arizona State University (ASU) developed modeling and analytic tools that raise the level of abstraction and add semantic val ...
- 7** Reverse Engineering: A linear bound on the complexity of the delaunay triangulation of points on polyhedral surfaces 80%
 Dominique Attali , Jean-Daniel Boissonnat
Proceedings of the seventh ACM symposium on Solid modeling and applications June 2002
 Delaunay triangulations and Voronoi diagrams have found numerous applications in surface modeling, surface mesh generation, deformable surface modeling and surface reconstruction. Many algorithms in these applications begin by constructing the three-dimensional Delaunay triangulation of a finite set of points scattered over a surface. Their running-time therefore depends on the complexity of the Delaunay triangulation of such point sets. Although the complexity of the Delaunay triangulation of p ...
- 8** Smooth-surface reconstruction in near-linear time 80%
 Stefan Funke , Edgar A. Ramos
Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms January 2002
 A surface reconstruction algorithm takes as input a set of sample points from an unknown closed and smooth surface in 3-d space, and produces a piece-wise linear approximation of the surface that contains the sample points. Recently, several algorithms with a correctness guarantee have been proposed. They have unfortunately a worst-case running time that is quadratic in the size of the input because they are based on the construction of 3-d Voronoi diagrams or Delaunay tetrahedrizations which ca ...
- 9** The power crust 80%
 Nina Amenta , Sunghee Choi , Ravi Krishna Kolluri
Proceedings of the sixth ACM symposium on Solid modeling and applications May 2001

 The *power crust* is a construction which takes a sample of points from the surface of a three-dimensional object and produces a surface mesh and an approximate medial axis. The approach is to first approximate the medial axis transform (MAT) of the object. We then use an inverse transform to produce the surface representation from the MAT.

 This idea leads to a simple algorithm with theoretical guarantees comparable to those of other surface reconstruction and medial axis approxi ...
- 10** Out-of-core simplification of large polygonal models 80%
 Peter Lindstrom
Proceedings of the 27th annual conference on Computer graphics and interactive techniques July 2000
 We present an algorithm for out-of-core simplification of large polygonal datasets that are too complex to fit in main memory. The algorithm extends the vertex clustering scheme of Rossignac and Borrel [13] by using error quadric information for the placement of each cluster's representative vertex, which better preserves fine details and results in a low mean geometric error. The use of quadrics instead of the vertex grading approach in [13] has the additional benefits of ...
- 11** Session P1: point-based rendering and modeling: Point set surfaces 77%
 Marc Alexa , Johannes Behr , Daniel Cohen-Or , Shachar Fleishman , David Levin , Claudio T. Silva
Proceedings of the conference on Visualization '01 October 2001
 We advocate the use of point sets to represent shapes. We provide a definition of a smooth manifold surface from a set of points close to the original surface. The definition is based on local maps from differential geometry, which are approximated by the method of moving least squares (MLS). We present tools to increase or decrease the density of the points, thus, allowing an adjustment of the spacing among the points to control the fidelity of the representation. To display the point set surfac ...
- 12** Session 8: Approximating and intersecting surfaces from points 77%
 Anders Adamson , Marc Alexa
Proceedings of the Eurographics/ACM SIGGRAPH symposium on Geometry processing June 2003
 Point sets become an increasingly popular shape representation. Most shape processing and rendering tasks require the approximation of a continuous surface from the point data. We present a surface approximation that is motivated by an efficient iterative ray intersection computation. On each point on a ray, a local normal direction is estimated as the direction of smallest weighted co-variances of the points. The normal direction is used to build a local polynomial approximation to the surface, ...
- 13** Session 4: Statistical point geometry 77%
 Aravind Kalaiah , Amitabh Varshney
Proceedings of the Eurographics/ACM SIGGRAPH symposium on Geometry processing June 2003
 We propose a scheme for modeling point sample geometry with statistical analysis. In our scheme we depart from the current schemes that deterministically represent the attributes of each point sample. We show how the statistical analysis of a densely sampled point model can be used to improve the geometry bandwidth bottleneck and to do randomized rendering without sacrificing visual realism. We first carry out a hierarchical principal component analysis (PCA) of the model. This stage partitions ...

14 The Delaunay tetrahedralization from Delaunay triangulated surfaces

77%



Sunghee Choi

Proceedings of the eighteenth annual symposium on Computational geometry June 2002

Given a surface mesh F in R^3 with vertex set S and consisting of Delaunay triangles, we want to construct the Delaunay tetrahedralization of S . We present an algorithm which constructs the Delaunay tetrahedralization of S given a bounded degree spanning subgraph T of F . It accelerates the incremental Delaunay triangulation construction by exploiting the connectivity of the points on the surface. If the expected size of the Delaunay tria ...

15 Surfaces and photorealism: Delaunay based shape reconstruction from large data

77%



Tamal K. Dey , Joachim Giesen , James Hudson

Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics October 2001

Surface reconstruction provides a powerful paradigm for modeling shapes from samples. For point cloud data with only geometric coordinates as input, Delaunay based surface reconstruction algorithms have been shown to be quite effective both in theory and practice. However, a major complaint against Delaunay based methods is that they are slow and cannot handle large data. We extend the COCONE algorithm to handle supsize data. This is the first reported Delaunay based surface reconstru ...

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Jerome Edward Lengyel
Proceedings of the 1999 symposium on Interactive 3D graphics April 1999

- 2** Compressing TINs 77%
Leila De Floriani , Paola Magillo , Enrico Puppo
Proceedings of the sixth ACM international symposium on Advances in geographic information systems November 1998

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Greg Turk , Marc Levoy
Proceedings of the 21st annual conference on Computer graphics and interactive techniques July 1994
 Range imaging offers an inexpensive and accurate means for digitizing the shape of three-dimensional objects. Because most objects self occlude, no single range image suffices to describe the entire object. We present a method for combining a collection of range images into a single polygonal mesh that completely describes an object to the extent that it is visible from the outside. The steps in our method are:
 1) align the meshes with each other using a modified iterated closest- ...
- 2 From range scans to 3D models
80%

Brian Curless
ACM SIGGRAPH Computer Graphics November 1999
 Volume 33 Issue 4
 Each year, we see a growing number of 3D range scanning products on the SIGGRAPH exhibition floor. You may find yourself asking "how do these technologies work?" and "how can I make use of the shape data they produce?" In this article, I will describe a few of the more common range scanning technologies. Then, I will step through a pipeline that takes the range data into a single geometric model and will conclude with a discussion of the future of range scanning.
- 3 Efficient co-triangulation of large data sets
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Henrik Weimer , Joe Warren , Jane Troutner , Wendell Wiggins , John Shrout
Proceedings of the conference on Visualization '98 October 1998
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Daniel Cohen-Or , Amira Solomovic , David Levin
ACM Transactions on Graphics (TOG) April 1998
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 Given two or more objects of general topology, intermediate objects are constructed by a distance field metamorphosis. In the presented method the interpolation of the distance field is guided by a warp function controlled by a set of corresponding anchor points. Some rules for defining a smooth least-distorting warp function are given. To reduce the distortion of the intermediate shapes, the warp function is decomposed into a rigid rotational part and an elastic part. The distance field in ...
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 Lee Markosian , Michael A. Kowalski , Daniel Goldstein , Samuel J. Trychin , John F. Hughes , Lubomir D. Bourdev
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 Bruce Walter , Philip M. Hubbard , Peter Shirley , Donald P. Greenberg
ACM Transactions on Graphics (TOG) July 1997
Volume 16 Issue 3
This article presents the density estimation framework for generating view-independent global illumination solutions. It works by probabilistically simulating the light flow in an environment with light particles that trace random walks origination at luminaires and then using statistical density estimation techniques to reconstruct the lighting on each surface. By splitting the computation into separate transport and reconstruction stages, we gain many advantages including reduced memory u ...
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Matthias Eck , Hugues Hoppe

Proceedings of the 23rd annual conference on Computer graphics and interactive techniques August 1996

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David W. Payton , Thomas E. Bihari

Communications of the ACM August 1991

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N. Amenta , S. Choi , T. K. Dey , N. Leekha

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Nina Amenta , Marshall Bern , Manolis Kamnitsis

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Model-based object recognition in dense-range images—a review

Farshid Arman , J. K. Aggarwal

ACM Computing Surveys (CSUR) March 1993

Volume 25 Issue 1

The goal in computer vision systems is to analyze data collected from the environment and derive an interpretation to complete a specified task. Vision system tasks may be divided into data acquisition, low-level processing, representation, model construction, and matching subtasks. This paper presents a comprehensive survey of model-based vision systems using dense-range images. A comprehensive survey of the recent publications in each subtask pertaining to dense-range image object recogni ...

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Paul E. Debevec

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


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Proceedings of the first symposium on Virtual reality modeling language January 1995
- 15** 3D painting on scanned surfaces 77%
 Maneesh Agrawala , Andrew C. Beers , Marc Levoy
Proceedings of the 1995 symposium on Interactive 3D graphics April 1995
We present an intuitive interface for painting on unparameterized three-dimensional polygon meshes using a 6D Polhemus space tracker as an input device. Given a physical object we first acquire its surface geometry using a Cyberware scanner. We then treat the sensor of the space tracker as a paintbrush. As we move the sensor over the surface of the physical object we color the corresponding locations on the scanned mesh. The physical object provides a natural force-feedback guide for painti ...

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